000 #2

RAW SEQUENCE LISTING PATENT APPLICATION US/09/891,943

DATE: 01/10/2002 TIME: 12:30:14

Input Set: 1891943.RAW

This Raw Listing contains the General Information Section and up to first 5 pages.

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PATENT APPLICATION US/09/891,943

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153	gtc agg ttt gat ctg gca ctg gac cca ggt cgt ctg act ccs agg Ala gtc agg ttt gat ctg gca ctg gac cca ggt cgt ctg act ccs agg Ala gtc agg ttt gat ctg gca ctg gac cca ggt cgt ctg act ccs agg Ala Val Arg Phe Asp Leu Ala Leu Asp Pro Gly Arg Leu Thr Ser Arg Ala Val Arg Phe Asp Leu Ala Leu Asp Pro Gly Arg Leu Thr Gga agg aaa acc ctg 2111
154	Val Arg Phe Asp Leu Ard 680  675  680  att ttc aat gaa acc aag aac ccc act ttg act cga aga aaa acc ctg 2111  att ttc aat gaa acc aag aac ccc act ttg act cga aga aaa acc ctg 2111  att ttc aat gaa acc aag aac ccc act ttg act cga aga aaa acc ctg 2111  att ttc aat gaa acc aag aac ccc act ttg act cga aga aaa acc ctg 2111  att ttc aat gaa acc aag aac ccc act ttg act cga aga aaa acc ctg 2111
155	att ttc aat gaa acc aag aac ccc act ttg act cga aga ddd Thr Leu att ttc aat gaa acc aag aac ccc act ttg act cga aga ddd Thr Leu att ttc aat gaa acc aag aac ccc act ttg act cga aga ddd Thr Leu att ttc aca gat tgt 2159
156	Ile Phe Asn Glu Thr Lys Ash 505
157	Ile Phe Asn Glu Thr Lys 1300 700 700 695 690 695 690 gga ctg ggg att cac tgt gaa acc ctg aag ctg ctt ttg cca gat tgt 2159 gga ctg ggg att cac tgt gaa acc ctg aag ctg Leu Leu Pro Asp Cys
158	gga ctg ggg att cac tgt gdd Thr Leu Lys Leu Leu Leu Fio Fibrary
159	gga ctg ggg att cac tgt gaa acc ctg aag ctg ctt ttg cod 3 gga ctg ggg att cac tgt gaa acc ctg aag ctg ctt ttg cod 3 gga ctg ggg att cac tgt gaa acc ctg Leu Leu Pro Asp Cys 715 710 715 710 715 715 715
160	Gly Leu Gly Ile His Cys Grand Tib 715 710 705 710 705 gag gat gtg gtg agc ccc atc att ctg cac ctc aac ttc tca ctg 2207 gtg gag gat gtg gtg agc ccc atc att ctg cac ctc aac ttc tca ctg 735 735
161	gtg gag gat gtg gtg agc coo at grant gar pro Ile Ile Leu His Leu ASN FNE 555
162	gtg gag gat gtg gtg agc ccc atc att ctg cac ctc adc tee Ser Leu gtg gag gat gtg gtg agc ccc atc att ctg cac ctc adc tee Ser Leu gtg gag gat gtg gtg agc ccc atc att ctg cac ctc adc tee Ser Leu 735 Val Glu Asp Val Val Ser Pro Ile Ile Leu His Leu Asn Phe Ser Leu 735 725 725 725 725 726 727 727 728 730 728 730 725
163	720 trace too coc cag aac ctg cgt cct gcg cos s
164 165	Val Glu Asp Val Val Sel 2255 725 720 726 727 728 gtg aga gag ccc atc ccc tcc ccc cag aac ctg cgt cct gtg ctg gcc 2255 720 gtg aga gag ccc atc ccc tcc ccc cag aac ctg cgt cct gtg ctg gcc 2255 730 740 750 750
166	Val Arg Giu Fio 110 745 745 and gag aag aac 2303
167	Val Arg Glu Pro 11e Pro 300 745 740 745 gtg ggc tca caa gac ctc ttc act gct tct ctc ccc ttc gag aag aac 2303 gtg ggc tca caa gac ctc ttc act gct tct ctc ccc ttc gag aag aac 2303 ytal Gly Ser Gln Asp Leu Phe Thr Ala Ser Leu Pro Phe Glu Lys Asn 765 760 760 765
168	gtg ggc tca caa gac ctc of Thr Ala Ser Leu Pro Pile Gra 2765
169	val Gly Ser Gin Apr 760 to acc ctc agc 2351
170	val Gly Ser Gli Asp Hou 760 755 755 tgt ggg caa gat ggc ctc tgt gaa ggg gac ctg ggt gtc acc ctc agc 2351 tgt ggg caa gat ggc ctc tgt gaa ggg gac ctg ggt gtc acc ctc agc 2351 tgt ggg caa gat ggc ctc tgt gaa ggg gac ctg ggt gtc acc ctc agc 2351  cys Gly Gln Asp Gly Leu Cys Glu Gly Asp Leu Gly Val Thr Leu Ser 780 775 775 775 776 777
171	tgt ggg caa gat ggc coo s Glu Gly Asp Leu Gly Val 1330
172	Cys Gly Gin Asp G17 775 at a gag ctc aac 2399
173	cys Gly Gln Asp Gly Leu Gln Thr Leu Thr Val Gly Ser Ser Leu Glu Leu Asn  775  ttc tca ggc ctg cag acc ctg acc gtg ggg agc tcc ctg gag ctc aac 2399  ttc tca ggc ctg cag acc ctg acc gtg ggg agc tcc ctg gag ctc aac 2399  ttc tca ggc ctg cag acc ctg acc gtg Ser Ser Leu Glu Leu Asn  795  790  790  780  780  780  780  780  780
174	ttc tca ggc cty cus Thr Leu Thr Val Gly Ser Ser 205
175	Phe Ser GIV hed 324 790
176	785  gtg att gtg act gtg tgg aac gca ggt gag gat tcc tac gga tac Val  gtg att gtg act gtg tgg aac gca ggt gag gat tcc tac gga tac gga gtg tca gga gtg tca gga 2495  810  805  810  82495
177	gtg att gtg acc 909 35 Asn Ala Gly Glu Asp Set 27 815
178	Val Ile Val Thr Val IIP 810 805 800 800 gtc agc ctc tac tat cca gca ggg ctg tcg cac cga cgg gtg tca gga 2495 gtc agc ctc tac tat cca gca ggg ctg tcg cac cga cgg gtg tca gga 2495 gtc agc ctc tac tat cca gca ggg ctg tcg cac cga cgg gtg tca gga 2495 gtc agc ctc tac tat cca gca ggg ctg tcg cac cga cgg gtg tca gga 2495 gtc agc ctc tac tat cca gca ggg ctg tcg cac cga cgg gtg tca gga 2495
179	800 stg tag tat cca gca ggg ctg tcg cac cgu as Val Ser Gly
180	gtc agc ctc tac tat cca gca ggg ctg tcg cac cga cgg gcs Ser Gly gtc agc ctc tac tat cca gca ggg ctg tcg cac cga cgg gcs Ser Gly gtc agc ctc tac tat cca gca ggg ctg tcg cac cga cgg gcs Ser Gly 830 Val Ser Leu Tyr Tyr Pro Ala Gly Leu Ser His Arg Arg Val Ser Gly 820 825 826
181	Val Ser Leu Tyr Tyr Flo Ala 825 820 820 825 gcc cag aag cag ccc cat cag agt gcc ctg cgc ctg gca tgt gag aca 2543 gcc cag aag cag ccc cat cag agt gcc ctg cgc ctg gca tgt gag aca 2543 gcc cag aag cag ccc cat cag agt gcc ctg cgc ctg gca tgt gag aca 2543 gcc cag aag cag ccc cat cag agt gcc ctg ctg gca tgt gag aca 2543
182	and cag ccc cat cag agt gcc ctg tgc obs Ala Cys Glu Thr
183	gcc cag aag cag ccc cat cag agt gcc ctg cgc ctg gca cys 355  gcc cag aag cag ccc cat cag agt gcc ctg cgc ctg gca cys 355  gcc cag aag cag ccc cat cag agt gcc ctg cgc ctg gca cys 355  Ala Gln Lys Gln Pro His Gln Ser Ala Leu Arg Leu Ala Cys Glu Thr  845  840  840  845  847  847  848
184	Ala Gln Lys Gln Pro His Can  840  835  gtg ccc act gag gat gag ggc cta aga agc agc cgc tgc agt gtc aac 2591  gtg ccc act gag gat gag ggc cta aga agc agc cgc tgc agt gtc aac 2591  gtg ccc act gag gat gag ggc cta aga agc agc cgc tgc agt gtc aac 2591
185	act gag gat gag ggc cta aga agc agc os Ser Val Asn
186	gtg ccc act gag gat gag ggc cta aga agc agc cgc tgc age 3 gtg ccc act gag gat gag ggc cta aga agc agc cgc tgc age 3 gtg ccc act gag gat gag ggc cta aga agc agc cgc tgc age 3 gtg ccc act gag gat gag ggc cta aga agc agc cgc tgc age 3 860 Val Pro Thr Glu Asp Glu Gly Leu Arg Ser Ser Arg Cys Ser Val Asn 860 855
187	Val Pro Thr Glu Asp Glu 517  855  855  850  cac ccc atc ttc cat gag ggc tct aac ggc acc ttc ata gtc aca ttc  cac ccc atc ttc cat gag ggc tct aac ggc acc ttc ata gtc aca ttc  710 Phe His Glu Gly Ser Asn Gly Thr Phe Ile Val Thr Phe
188	cac ccc atc ttc cat gag ggc tct aac ggc acc ttc ata get atc cat gag ggc tct aac ggc acc ttc ata get atc cat gag ggc tct aac ggc acc ttc ata get atc cat gag ggc cac atc ttc ata get atc cat gag gcc 2687
189	His Pro Ile Phe His Glu Gly Ser Ash Gly III 875
190	His Pro Ile Phe HIS GIA 875  875  876  876  877  877  878  878
191	gat gtc tcc tac aag gcc acc ctg gga gac agg atg ctc dog agg Ala gat gtc tcc tac aag gcc acc ctg gga gac agg atg ctc dog agg Asp Val Ser Tyr Lys Ala Thr Leu Gly Asp Arg Met Leu Met Arg Ala 895
192	an Val Ser Tyl Ele 890
193	
194	880

DATE: 01/10/2002 TIME: 12:30:14 RAW SEQUENCE LISTING PATENT APPLICATION US/09/891,943 5 PAGE:

Input Set: 1891943.RAW

	Input Set: 1891943.Ran
195	agt gca agc agt gag aac aat aag gct tca agc agc aag gcc acc ttc 2735  agt gca agc agt gag aac aat aag gct tca agc agc aag gcc acc ttc 2735  ser Ala Ser Ser Glu Asn Asn Lys Ala Ser Ser Ser Lys Ala Thr Phe 910 905 905 905 907 907 908 908
196	
197	
198	cag ctg gag ctc ccg gtg aag tat gca gtc tac acc atg dec sor arg  cag ctg gag ctc ccg gtg aag tat gca gtc tac acc atg dec sor  cag ctg gag ctc ccg gtg aag tat gca gtc tac acc atg dec sor  gag ctg gag ctc ccg gtg aag aag atg gag aag acc acc atg dec sor  gag ctg gag ctc ccg gtg aag aag acc acc acc acc atg dec sor  gag ctg gag ctc ccg gtg aag aag acc acc acc acc acc acc acc ac
199	
200	Gln Leu Glu heu 170 920 915 920 931 cag gaa gaa tcc acc aag tac ttc aac ttt gca acc tcc gat gag aag 2831 cag gaa gaa tcc acc aag tac ttc aac ttt gca acc tcc gat gag aag 2831
201	cag gaa gaa too acc adg the Asn Phe Ala Thr Ser Asp of a ser Thr Lys Tyr Phe Asn Ph
202	
203	935 930 936 aaa atg aaa gag gct gag cat cga tac cgt gtg aat aac ctc agc cag 9379 938 aaa atg aaa gag gct gag cat cga tac cgt gtg aat aac ctc agc cag 938 aaa atg aaa gag gct gag cat cga tac cgt gtg aat aac ctc agc cag 938 aaa atg aaa gag gct gag cat cga tac cgt gtg aat aac ctc agc cag 938 aaa atg aaa gag gct gag cat cga tac cgt gtg aat aac ctc agc cag
204	aaa atg aaa gag gct gag cat cga tac cgt gtg aat aac oo
205	
206	Lys Met Lys Giu Ala 950 945 950 cga gat ctg gcc atc agc att aac ttc tgg gtt cct gtc ctg ctg aac 2927 cga gat ctg gcc atc agc att aac ttc tgg gtt cct gtc ctg ctg aac 2927 cga gat ctg gcc atc agc att aac ttc tgg gtt cct gtc ctg ctg aac 2927 arg Asp Leu Ala Ile Ser Ile Asn Phe Trp Val Pro Val Leu Leu Asn 975 arg Asp Leu Ala Ile Ser Ile Asn Phe Trp Val Pro Val Cag agt ctc 2975
207	cga gat ctg gcc ato us grant g
208	Arg Asp Leu Ald 11c 557 970 970
209	Arg Asp Leu Ala 110 970 965 960 965 ggg gtg gct gtg tgg gat gtg gtc atg gag gcc cca tct cag agt ctc 2975 ggg gtg gct gtg tgg gat gtg gtc atg gag gcc cca tct cag agt ctc 2975 ggg gtg gct gtg tgg gat gtg gtc atg gag gcc cca tct cag agt ctc 2975 ggg gtg gct gtg tgg gat gtg gtc atg gac cca tct cag agt ctc 2975 ggg gtg gct gtg tgg gat gtg gtc atg gac cca tct cag agt ctc 2975 ggg gtg gct gtg tgg gat gtg gtc atg gac cca tct cag agt ctc 2975 ggg gtg gct gtg tgg gat gtg gtc atg gac cca tct cag agt ctc 2975 ggg gtg gct gtg tgg gat gtg gtc atg gac gcc cca tct cag agt ctc 2975 ggg gtg gct gtg tgg gat gtg gtc atg gac gcc cca tct cag agt ctc 2975
210	ggg gtg gct gtg tgg sat sal val Met Glu Ala Pro Sel Gran 990
211	Gly Val Ala Val 119 129 985 980 980 15 tot gag tto ctg acc 3023
212	ccc tgt gtt tca gag aga aaa cct ccc cag cat tct gac ttc ctg acc 3023  ccc tgt gtt tca gag aga aaa cct ccc cag cat tct gac ttc ctg acc 3023  ccc tgt gtt tca gag aga aaa cct ccc cag cat tct gac ttc ctg acc 3023  ccc tgt gtt tca gag aga aaa cct ccc cag cat tct gac ttc ctg acc 3023  1005  1000  10
213	ccc tgt gtt tca gas so pro pro Gln His Sei App 1005
214	
215	Pro Cys Val Ser Git 125 1000 1005 1005 1005 1005 1005 1005
216	cag att toa agu as Pro Met Leu Asp Cys Ser 11e Ala and 1020
217	cag ttc cgc tgt gac gtc ccc tcc ttc agc gtc cag gag gag ctg gat 3119
218	the age tat gae gte eee tee tte age gte eag gas s
219	cag ttc cgc tgt gac gtc ccc tcc ttc agc gtc cag gag sas to cag ttc cgc tgt gac gtc ccc tcc ttc agc gtc cag gag sas to cag ttc cgc tgt gac gtc ccc tcc ttc agc gtc cag gag sas to cag gag sas to cag gag sas to cag gag sas ttg 3167
220	ttc acc ctg aag ggc aat ctc agt ttc ggc tgg gtc cgc gag aca ttg  1030  1025  ttc acc ctg aag ggc aat ctc agt ttc ggc tgg gtc cgc gag aca ttg  1055  1055
221	ttc acc ctg aag ggc aat ctc agt ttc ggc tgg gtc cgc gdg at ttc acc ctg aag ggc aat ctc agt ttc ggc tgg gtc cgc gdg at ttc acc ctg aag ggc aat ctc agt ttc gac aca 3215
222	The Thr Leu Lys Gly Asn Leu Ser Phe Gly 115 1055
223	Phe Thr Leu Lys GI7 1225 1050 1045 1040 1045 1040 20 ag aag aag gtg ttg gtc gtg agt gtg gct gaa att acg ttc gac aca 3215 2040 2040 2040 2040 2040 2040 2040 204
224	cag aag aag gtg ttg gtc gtg agt gtg gct gaa att acg too Asp Thr cag aag aag gtg ttg gtc gtg agt gtg gct gaa att acg too Asp Thr cag aag aag gtg ttg gtc gtg agt gtg gct gaa att acg too Asp Thr cag aag agg gct cag 3263
225	
226	
227	tag ata tag tag ctt cca gga cay gay god Phe Met Arg Ala Gln
228	
229	
230	ser Val Tyr Ser Gin 200 1080 1005  1075 1080 1005  atg gag atg gtg cta gaa gac gag gtc tac aat gcc att ccc atc 3311  atg gag atg gtg cta gaa gac gag gtc tac aat gcc att ccc atc 3311  atg gag atg gtg cta gaa gac gag gtc tac aat gcc att ccc atc 3311  1080 1095 1100  1100 1100  1095 1000  1
231	Met Glu Met Val Leu Glu Glu Asp Glu Val 1100  1100  1100  1100
232	Met Glu Met Val het Glu 1095 1100 1095 1090 1090 1095 atc atg ggg gct ctg cta ctg ctg gcg ctc atc aca 3359 atc atg ggc agc tct gtg ggg gct ctg cta ctg ctg gcg ctc atc aca 3359
233	atc atg ggc agc tct gtg ggg gct ctg cta ctg ctg gtg ddd Ile Thr  Ile Met Gly Ser Ser Val Gly Ala Leu Leu Leu Leu Ala Leu Ile Thr  1115  1110  1110  1115  1110  1110  1110  1110  1110  1110  1110
234	Ile Met Gly Ser Ser Val Gly Ala Lea 224 1115 1115 3407
235	1105 1100 and the the aga ege cae tae aag gaa atg
236	1110  1105  1110  1105  1110  1110  1115
237	gcc aca ctg tac aag ctt ggc ttc ttc aaa cgc cac tac aas so gcc aca ctg tac aag ctt ggc ttc ttc aaa cgc cac tac aas so gcc aca ctg tac aag ctt ggc ttc ttc aaa cgc cac tac aas so 1135 ala Thr Leu Tyr Lys Leu Gly Phe Phe Lys Arg His Tyr Lys Glu Met 1135 ala Thr Leu Tyr Lys Leu Gly Phe Phe Lys Arg His Tyr Lys Glu Met 1135 ala Thr Leu Tyr Lys Leu Gly Phe Phe Lys Arg Gac gat ttc 3455
238	
239	ctg gag gac aag cct gaa gac act gcc aca ttc agt gag gac Asp Phe ctg gag gac aag cct gaa gac act gcc aca ttc agt gag gac Asp Phe ctg gag gac aag cct gaa gac act gcc aca ttc agt gag gac 3  1150 1140 1140 3505
240	Leu Glu Asp Lys Pro Glu Asp 111 A12 1150 1150
241	1140 at a cat the too taataatooa otttootett
242 243	Leu Glu ASP Lys F10 1145  1140  agc tgt gtg gcc cca aat gtg cct ttg tcc taataatcca ctttcctgtt 3505  agc tgt gtg gcc cca aat gtg cct ttg tcc taataatcca ctttcctgtt 3505
243	agc tgt gtg gcc cca aat gcg ort Ser Cys Val Ala Pro Asn Val Pro Leu Ser
244	